## SEQUENCE LISTING

		(1) GENERAL INFORMATION:	
	5	(i) APPLICANT: Dong, Fang Lyamichev, Victor I. Prudent, James R. Dahlberg, James E. Fors, Lance	
		(ii) TITLE OF INVENTION: Polymorphism Analysis By Nucleic Acid Structure Probing	
	10	(iii) NUMBER OF SEQUENCES: 38	
	15	<ul> <li>(iv) CORRESPONDENCE ADDRESS:</li> <li>(A) ADDRESSEE: MEDLEN &amp; CARROLL, LLP</li> <li>(B) STREET: 220 Montgomery Street, Suite 2200</li> <li>(C) CITY: San Francisco</li> <li>(D) STATE: CA</li> <li>(E) COUNTRY: USA</li> <li>(F) ZIP: 94104</li> </ul>	
	20	<ul> <li>(v) COMPUTER READABLE FORM:</li> <li>(A) MEDIUM TYPE: Floppy disk</li> <li>(B) COMPUTER: IBM PC compatible</li> <li>(C) OPERATING SYSTEM: PC-DOS/MS-DOS</li> <li>(D) SOFTWARE: PatentIn Release #1.0, Version #1.30</li> </ul>	
	25	<ul><li>(vi) CURRENT APPLICATION DATA:</li><li>(A) APPLICATION NUMBER: US</li><li>(B) FILING DATE:</li><li>(C) CLASSIFICATION:</li></ul>	
	30	<ul><li>(viii) ATTORNEY/AGENT INFORMATION:</li><li>(A) NAME: Ingolia, Diane E.</li><li>(B) REGISTRATION NUMBER: 40,027</li><li>(C) REFERENCE/DOCKET NUMBER: FORS-02777</li></ul>	
		(ix) TELECOMMUNICATION INFORMATION: (A) TELEPHONE: (415) 705-8410 (B) TELEFAX: (415) 397-8338	
	35	(2) INFORMATION FOR SEQ ID NO:1:	
	40	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 391 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
		<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:	
		AGCTCGTATG GCACCGGAAC CGGTAAGGAC GCGATCACCA GCGGCATCGA GGTCGTATGG	60
	45	ACGAACACCC CGACGAAATG GGACAACAGT TTCCTCGAGA TCCTGTACGG CTACGAGTGG	120
		GAGCTGACGA AGAGCCCTGC TGGCGCTTGG CAATACACCG CCAAGGACGG CGCCGGTGCC	180

	GGCACCATCC CGGACCCGTT CGGCGGGCCA GGGCGCTCCC CGACGATGCT GGCCACTGAC	240
	CTCTCGCTGC GGGTGGATCC GATCTATGAG CGGATCACGC GTCGCTGGCT GGAACACCCC	300
	GAGGAATTGG CCGACGAGTT CGCCAAGGCC TGGTACAAGC TGATCCACCG AGACATGGGT	360
	CCCGTTGCGA GATACCTTGG GCCGGTGGTC C	391
5	(2) INFORMATION FOR SEQ ID NO:2:	
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 391 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
	AGCTCGTATG GCACCGGAAC CGGTAAGGAC GCGATCACCA CCGGCATCGA GGTCGTATGG	60
15	ACGAACACCC CGACGAAATG GGACAACAGT TTCCTCGAGA TCCTGTACGG CTACGAGTGG	120
	GAGCTGACGA AGAGCCCTGC TGGCGCTTGG CAATACACCG CCAAGGACGG CGCCGGTGCC	180
	GGCACCATCC CGGACCCGTT CGGCGGGCCA GGGCGCTCCC CGACGATGCT GGCCACTGAC	240
	CTCTCGCTGC GGGTGGATCC GATCTATGAG CGGATCACGC GTCGCTGGCT GGAACACCCC	300
	GAGGAATTGG CCGACGAGTT CGCCAAGGCC TGGTACAAGC TGATCCACCG AGACATGGGT	360
20	CCCGTTGCGA GATACCTTGG GCCGCTGGTC C	391
	(2) INFORMATION FOR SEQ ID NO:3:	
25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 391 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
30	AGCTCGTATG GCACCGGAAC CGGTAAGGAC GCGATCACCA GCGGCATCGA GGTCGTATGG	60
	ACGAACACCC CGACGAAATG GGACAACAGT TTCCTCGAGA TCCTGTACGG CTACGAGTGG	120
	GAGCTGACGA AGAGCCCTGC TGGCGCTTGG CAATACACCG CCAAGGACGG CGCCGGTGCC	180
	GGCACCATCC CGGACCCGTT CGGCGGCCCA GGGCGCTCCC CGACGATGCT GGCCACTGAC	240
	CTCTCGCTGC GGGTGGATCC GATCTATGAG CGGATCACGC GTCGCTGGCT GGAACACCCC	300
35	GAGGAATTGG CCGACGAGTT CGCCAAGGCC TGGTACAAGC TGATCCACCG AGACATGGGT	360
	COCCUTAGE CAMPACCUTCC CCCCCTCCTC	391

CCCGTTGCGA GATACCTTGG GCCGCTGGTC C

		(2) INFORMATION FOR SEQ ID NO:4:	
	5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 391 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
		<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
	10	AGCTCGTATG GCACCGGAAC CGGTAAGGAC GCGATCACCA CCGGCATCGA GGTCGTATGG	60
		ACGAACACCC CGACGAAATG GGACAACAGT TTCCTCGAGA TCCTGTACGG CTACGAGTGG	120
		GAGCTGACGA AGAGCCCTGC TGGCGCTTGG CAATACACCG CCAAGGACGG CGCCGGTGCC	180
		GGCACCATCC CGGACCCGTT CGGCGGGCCA GGGCGCTCCC CGACGATGCT GGCCACTGAC	240
		CTCTCGCTGC GGGTGGATCC GATCTATGAG CGGATCACGC GTCGCTGGCT GGAACACCCC	300
	15	GAGGAATTGG CCGACGAGTT CGCCAAGGCC TGGTACAAGC TGATCCACCG AGACATGGGT	360
j D		CCCGTTGCGA GATACCTTGG GCCGGTGGTC C	391
F.		(2) INFORMATION FOR SEQ ID NO:5:	
	20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 20 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
		<pre>(ii) MOLECULE TYPE: other nucleic acid</pre>	
	25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
		AGCTCGTATG GCACCGGAAC	20
		(2) INFORMATION FOR SEQ ID NO:6:	
	30	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 20 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
		<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
		TTGACCTCCC ACCCGACTTG	20

	5	(A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
		<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
	10	AGCTCGTATG GCACCGGAAC C	21
		(2) INFORMATION FOR SEQ ID NO:8:	
	15	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 20 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
		<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
	20	GGACCAGCGG CCCAAGGTAT	20
UI Vj		(2) INFORMATION FOR SEQ ID NO:9:	
	25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 22 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
		<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
<b>l</b> ező	30	GGACCACCGG CCCAAGGTAT CT	22
		(2) INFORMATION FOR SEQ ID NO:10:	
	35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 21 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
		<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	

(2) INFORMATION FOR SEQ ID NO:7:

TTTTTGCCGC TGGTGATCGC G

40

(i) SEQUENCE CHARACTERISTICS:

22

21

	(2) INFORMATION FOR SEQ ID NO:11:	
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 12 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
10	GGAGAGCCAT AG	12
	(2) INFORMATION FOR SEQ ID NO:12:	
15	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 11 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	
20	TGGTCTGCGG A	11
	(2) INFORMATION FOR SEQ ID NO:13:	
25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 11 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:	
30	GGACGACCGG G	11
	(2) INFORMATION FOR SEQ ID NO:14:	
35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 11 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid           (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:	
40	GGAGATTTGG G	13

	5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 11 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
,		<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:	
	10	CCGCGAGACT G	11
		(2) INFORMATION FOR SEQ ID NO:16:	
	15	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 12 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
		<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
o Ti		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:	
~! ~!	20	CTAGCCGAGT AG	12
## #		(2) INFORMATION FOR SEQ ID NO:17:	
	25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 11 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
		<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:	
	30	TGTTGGGTCG C	11
		(2) INFORMATION FOR SEQ ID NO:18:	
	35	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 11 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
		<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:	
	40	CCGCGAGACC G	11

(2) INFORMATION FOR SEQ ID NO:15:

	(2) INFORMATION FOR SEQ ID NO:19:	
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 11 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:	
10	CCGCAAGACC G	11
	(2) INFORMATION FOR SEQ ID NO:20:	
15	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 289 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:	
20	GATTCTGTCT TCACGCAGAA AGCGTCTAGC CATGGCGTTA GTATGAGTGT CGTGCAGCCT	60
	CCAGGACCCC CCCTCCCGGG AGAGCCATAG TGGTCTGCGG AACCGGTGAG TACACCGGAA	120
	TTGCCAGGAC GACCGGGTCC TTTCTTGGAT CAACCCGCTC AATGCCTGGA GATTTGGGCG	180
	TGCCCCGCA AGACTGCTAG CCGAGTAGTG TTGGGTCGCG AAAGGCCTTG TGGTACTGCC	240
	TGATAGGGTG CTTGCGAGTG CCCCGGGAGG TCTCGTAGAC CGTGCAATC	289
25	(2) INFORMATION FOR SEQ ID NO:21:	
30	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 286 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:	
	GATTCTGTCT TCACGCAGAA AGCGTCTAGC CATGGCGTTA GTATGAGTGT CGTGCAGCCT	60
35	CCAGGTCCCC CCCTCCCGGG AGAGCCATAG TGGTCTGCGG AACCGGTGAG TACACCGGAA	120
	TTGCCAGGAC GACCGGGTCC TTTCTTGGAT CAACCCGCTC AATGCCTGGA GATTTGGGCG	180
	TGCCCCGCG AGACTGCTAG CCGAGTAGTG TTGGGTCGCG AAAGGCCTTG TGGTACTGCC	240
	MARINACCOMO CUTUCOCACUO COCOCCAGAGO TOTOGUAGAO COTGOA	286

	(2) INFORMATION FOR SEQ ID NO:22:	
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 289 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:	
10	GATTCTGTCT TCACGCAGAA AGCGTCTAGC CATGGCGTTA GTATGAGTGT CGTACAGCCT	60
	CCAGGCCCCC CCCTCCCGGG AGAGCCATAG TGGTCTGCGG AACCGGTGAG TACACCGGAA	120
	TTGCCGGGAA GACTGGGTCC TTTCTTGGAT AAACCCACTC TATGCCCGGC CATTTGGGCG	180
	TGCCCCCGCA AGACTGCTAG CCGAGTAGCG TTGGGTTGCG AAAGGCCTTG TGGTACTGCC	240
	TGATAGGGTG CTTGCGAGTA CCCCGGGAGG TCTCGTAGAC CGTGCAATC	289
15	(2) INFORMATION FOR SEQ ID NO:23:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 289 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:	
	GATTCTGTCT TCACGCAGAA AGCGCCTAGC CATGGCGTTA GTACGAGTGT CGTGCAGCCT	60
25	CCAGGACCCC CCCTCCCGGG AGAACCATAG TGGTCTGCGG AACCGGTGAG TACACCGGAA	120
	TCGCTGGGGT GACCGGGTCC TTTCTTGGAG CAACCCGCTC AATACCCAGA AATTTGGGCG	180
	TGCCCCGCG AGATCACTAG CCGAGTAGTG TTGGGTCGCG AAAGGCCTTG TGGTACTGCC	240
	TGATAGGGTG CTTGCGAGTG CCCCGGGAGG TCTCGTAGAC CGTGCAATC	289
	(2) INFORMATION FOR SEQ ID NO:24:	
30	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 18 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
35	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:	
	CTCGCAAGCA CCCTATCA	18

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5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 21 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid   (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:	
10	GCAGAAAGCG TCTAGCCATG G	21
	(2) INFORMATION FOR SEQ ID NO:26:	
15	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 244 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:	
20	GCAGAAAGCG TCTAGCCATG GCGTTAGTAT GAGTGTCGTG CAGCCTCCAG GACCCCCCCT	60
	CCCGGGAGAG CCATAGTGGT CTGCGGAACC GGTGAGTACA CCGGAATTGC CAGGACGACC	120
	GGGTCCTTTC TTGGATCAAC CCGCTCAATG CCTGGAGATT TGGGCGTGCC CCCGCAAGAC	180
	TGCTAGCCGA GTAGTGTTGG GTCGCGAAAG GCCTTGTGGT ACTGCCTGAT AGGGTGCTTG	240
	CGAG	244
25	(2) INFORMATION FOR SEQ ID NO:27:	
30	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 244 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:	
	GCAGAAAGCG TCTAGCCATG GCGTTAGTAT GAGTGTCGTG CAGCCTCCAG GTCCCCCCT	60
35	CCCGGGAGAG CCATAGTGGT CTGCGGAACC GGTGAGTACA CCGGAATTGC CAGGACGACC	120
	GGGTCCTTTC TTGGATCAAC CCGCTCAATG CCTGGAGATT TGGGCGTGCC CCCGCGAGAC	180
	TGCTAGCCGA GTAGTGTTGG GTCGCGAAAG GCCTTGTGGT ACTGCCTGAT AGGGTGCTTG	240
	CCAC	244

5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 244 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:	
10	GCAGAAAGCG TCTAGCCATG GCGTTAGTAT GAGTGTCGTA CAGCCTCCAG GCCCCCCCT	60
	CCCGGGAGAG CCATAGTGGT CTGCGGAACC GGTGAGTACA CCGGAATTGC CGGGAAGACT	120
	GGGTCCTTTC TTGGATAAAC CCACTCTATG CCCGGCCATT TGGGCGTGCC CCCGCAAGAC	180
	TGCTAGCCGA GTAGCGTTGG GTTGCGAAAG GCCTTGTGGT ACTGCCTGAT AGGGTGCTTG	240
	CGAG	244
15	(2) INFORMATION FOR SEQ ID NO:29:	
20	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 244 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:	
	GCAGAAAGCG CCTAGCCATG GCGTTAGTAC GAGTGTCGTG CAGCCTCCAG GACCCCCCCT	60
25	CCCGGGAGAA CCATAGTGGT CTGCGGAACC GGTGAGTACA CCGGAATCGC TGGGGTGACC	120
	GGGTCCTTTC TTGGAGCAAC CCGCTCAATA CCCAGAAATT TGGGCGTGCC CCCGCGAGAT	180
	CACTAGCCGA GTAGTGTTGG GTCGCGAAAG GCCTTGTGGT ACTGCCTGAT AGGGTGCTTG	240
	CGAG	244
	(2) INFORMATION FOR SEQ ID NO:30:	
30	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 216 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
35	<pre>(ii) MOLECULE TYPE: other nucleic acid   (A) DESCRIPTION: /desc = "DNA"</pre>	

(2) INFORMATION FOR SEQ ID NO:28:

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:	
	CAGAAAGGGT TTAGCCATGG GGTTAGTATG AGTGTCGTAC AGCCTCCAGG CCCCCCCTC	60
	CCGGGAGAGC CATAGTGGTC TGCGGAACCG GTGAGTACAC CGGAATTGCC GGGAAGACTG	120
	GGTCCTTTCT TGGATAAACC CACTCTATGC CCGGCCATTT GGGCGTGCCC CCGCAAGACT	180
5	GCTAGCCGAG TAGCGTTGGG TTGCGAAAGG CCTTGT	216
	(2) INFORMATION FOR SEQ ID NO:31:	
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 244 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:	
15	CAGAAAGGGT TTAGCCATGG CGTTAGTATG AGTGTCGTGC AGCCTCCAGG ACCCCCCTC	60
	CCGGGAGAGC CATAGTGGTC TGCGGAACCG GTGAGTACAC CGGAATTGCC AGGACGACCG	120
	GGTCCTTTCT TGGATAAAAC CCGCTCAATG CCTGGAGATT TGGGCGTGCC CCCGCAAGAC	180
	TGCTAGCCGA GTAGTGTTGG GTCGCGAAAG GCCTTGTGGT ACTGCCTGAT AGGGTGCTTG	240
	CAAG	244
20	(2) INFORMATION FOR SEQ ID NO:32:	
25	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 239 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:	
	GCAGAAAGGT TTAGCCATGG GTTAGTATGA GTGTCGTGCA GCCTCCAGGA CCCCCCCTCC	60
30	CGGGAGAGCC ATAGTGGTCT GCGGAACCGG TGAGTACACC GGAATTGCCA GGACGACCGG	120
	GTCCTTTCTT GGATTAACCC GCTCAATGCC TGGAGATTTG GGCGTGCCCC CGCAAGACTG	180
	CTAGCCGAGT AGTGTTGGGT CGCGAAAGGC CTTGTGGTAC TGCCTGATAG GGTGCTTGC	239

	(2) INFORMATION FOR SEQ ID NO:33:	
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 240 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid       (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:	
10	GCAGAAAGGT TTAGCCATGG GGTTAGTATG AGTGTCGTAC AGCCTCCAGG ACCCCCCTC	60
	CCGGGAGAGC CATAGTGGTC TGCGGAACCG GTGAGTACAC CGGAATTGCC AGGACGACCG	120
	GGTCCTTTCT TGGATAAACC CGCTCAATGC CTGGAGATTT GGGCGTGCCC CCGCAAGACT	180
	GCTAGCCGAG TAGTGTTGGG TCGCGAAAGG CCTTGTGGTA CTGCCTGATA GGGTGCTTGC	240
	(2) INFORMATION FOR SEQ ID NO:34:	
15	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 240 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
20	<pre>(ii) MOLECULE TYPE: other nucleic acid</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:	
	GCAGAAAGGG TTTAGCCATG GCGTTAGTAT GAGTGTCGTA CAGCCTCCAG GCCCCCCCT	60
	CCCGGGAGAG CCATAGTGGT CTGCGGAACC GGTGAGTACA CCGGAATTAC CGGAAAGACT	120
25	GGGTCCTTTC TTGGATAAAC CCACTCTATG TCCGGTCATT TGGGCGTGCC CCCGCAAGAC	180
	TGCTAGCCGA GTAGCGTTGG GTTGCAAAGG CCTTGTGGTA CTGCCTGATA GGGTGCTTGC	240
	(2) INFORMATION FOR SEQ ID NO:35:	
30	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 240 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:	
	CAGAAAGGGT TTAGCCATGG GGTTAGTACG AGTGTCGTGC AGCCTCCAGG CCCCCCCTC	60
	CCGGGAGAGC CATAGTGGTC TGCGGAACCG GTGAGTACAC CGGAATCGCT GGGGTGACCG	120
	GGTCCTTTCT TGGAGCAACC CGCTCAATAC CCAGAAATTT GGGCGTGCCC CCGCGAGATC	180
	ACTAGCCGAG TAGTGTTGGG TCGCGAAAGG CCTTGTGGTA CTGCCTGATA GGGTGCTTGC	240

5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 239 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:	
10	AGAAAGCGTT TAGCCATGGC GTTAGTATGA GTGTTGTGCA GCCTCCAGGA CCCCCCCTCC	60
	CGGGAGAGCC ATAGTGGTCT GCGGAACCGG TGAGTACACC GGAATTGCCA GGACGACCGG	120
	GTCCTTTCTT GGATCAACCC GCTCAATGCC TGGAGATTTG GGCGTGCCCC CGCAAGACTG	180
	CTAGCCGAGT AGTGTTGGGT CGCGAAAGGC CTTGTGGTAC TGCCTGATAG GGTGCTTGC	239
	(2) INFORMATION FOR SEQ ID NO:37:	
15	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 232 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
20	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:	
	GTTTAGCCAT GGCGTTAGTA TGAGTGTCGT GCAGCCTCCA GGACCCCCCC TCCCGGGAGA	60
	GCCATAGTGG TCTGCGGAAC CGGTGAGTAC ACCGGAATTG CCAGGACGAC CGGGTCCTTT	120
25	CTTGGATCAA CCCGCTCAAT GCCTGGAGAT TTGGGCGTGC CCCCGCGAGA CCGCTAGCCG	180
	AGTAGTGTTG GGTCGCGAAA GGCCTTGTGG TACTGCCTGA TAGGGTGCTT GC	232
	(2) INFORMATION FOR SEQ ID NO:38:	
30	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 240 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid   (A) DESCRIPTION: /desc = "DNA"</pre>	

(2) INFORMATION FOR SEQ ID NO:36:

5





## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

60	GACCCCCCT	CAGCCTCCAG	GAGTGTCGTG	GCGTTAGTAC	TTTAGCCATG	GCAGAAAGCG	
120	TGGGGTGACC	CCGGAATCGC	GGTGAGTACA	CTGCGGAACC	CCATAGTGGT	CCCGGGAGAG	
180	CCCGCGAGAT	TGGGCGTGCC	CCCAGAAATT	CCGCTCAATA	TTGGAACAAC	GGGTCCTTTC	
240	AGGGTGCTTG	ACTGCCTGAT	GCCTTGTGGT	CTCCCCAAAG	CTACTCTTCC	GR GERR GGGGR	